

>AB077881 ACCESSION:AB077881 NID: gi 18181975 dbj AB077881.1 Homo
sapiens mRNA for caspr5, complete cds
Length = 4920

Score = 2567 bits (6581), Expect = 0.0
Identities = 1303/1307 (99%), Positives = 1303/1307 (99%), Gaps = 3/1307 (0%)
Frame = +1

Query: 1 MDSLPRLTSVLTLLFSGLWHLGLTATNYNCDPLASLLSPMAFSSSSDLTGTHSPAQLNW 60
MDSLPRLTSVLTLLFSGLWHLGLTATNYNCDPLASLLSPMAFSSSSDLTGTHSPAQLNW
Sbjct: 1 MDSLPRLTSVLTLLFSGLWHLGLTATNYNCDPLASLLSPMAFSSSSDLTGTHSPAQLNW 180

Query: 61 RVGTGGWSPADSNAQQWLQMDLGNRVEITAVATQGRYGSSDWVTSYSLMFSDTGRNWKQY 120
RVGTGGWSPADSNAQQWLQMDLGNRVEITAVATQGRYGSSDWVTSYSLMFSDTGRNWKQY
Sbjct: 181 RVGTGGWSPADSNAQQWLQMDLGNRVEITAVATQGRYGSSDWVTSYSLMFSDTGRNWKQY 360

Query: 121 KQEDSIWTFAGNMNADSVVHHKLLHSVRARFVRFPLEWNPSGKIGMRVEVYGCSYKSDV 180
KQEDSIWTFAGNMNADSVVHHKLLHSVRARFVRFPLEWNPSGKIGMRVEVYGCSYKSDV
Sbjct: 361 KQEDSIWTFAGNMNADSVVHHKLLHSVRARFVRFPLEWNPSGKIGMRVEVYGCSYKSDV 540

Query: 181 ADFDGRSSLLYRFNQKLMSTLKDVISLKFKSMQGDGVLFHGEGQRGDHITLELQKGRAL 240
ADFDGRSSLLYRFNQKLMSTLKDVISLKFKSMQGDGVLFHGEGQRGDHITLELQKGRAL
Sbjct: 541 ADFDGRSSLLYRFNQKLMSTLKDVISLKFKSMQGDGVLFHGEGQRGDHITLELQKGRAL 720

Query: 241 HNLGDSKARLSSSLPSATLGSLDDQHW-HVLIERVGKQVNFTVDKHTQHFRTKGETDA 299
HNLGDSKARLSSSLPSATLGSLDDQHW HVLIERVGKQVNFTVDKHTQHFRTKGETDA
Sbjct: 721 HNLGDSKARLSSSLPSATLGSLDDQHWHSVLIERVGKQVNFTVDKHTQHFRTKGETDA 900

Query: 300 LDIDYELSFGGIPVPGKPGTFLKKNFHGCIENLYYNGVNII-LAKRRKHQIYTVGNVTFS 358
LDIDYELSFGGIPVPGKPGTFLKKNFHGCIENLYYNGVNII LAKRRKHQIYT GNVTF
Sbjct: 901 LDIDYELSFGGIPVPGKPGTFLKKNFHGCIENLYYNGVNIIDLAKRRKHQIYT-GNVTF 1077

Query: 359 CSEPQIVPITF-NSSGSYLLLPGTPQIDGLSVSFQFRTWNKDGLLLSTELSEGSGTLLLS 417
CSEPQIVPITF NSSGSYLLLPGTPQIDGLSVSFQFRTWNKDGLLLSTELSEGSGTLLLS
Sbjct: 1078 CSEPQIVPITFVNSSGSYLLLPGTPQIDGLSVSFQFRTWNKDGLLLSTELSEGSGTLLLS 1257

Query: 418 LEGGILRLVIQKMTERVAEILTGSNLNDGLWHSVSINARRNRITLTLDDDEAAPPAPDSTW 477
LEGGILRLVIQKMTERVAEILTGSNLNDGLWHSVSINARRNRITLTLDDDEAAPPAPDSTW
Sbjct: 1258 LEGGILRLVIQKMTERVAEILTGSNLNDGLWHSVSINARRNRITLTLDDDEAAPPAPDSTW 1437

Query: 478 VQIYSGNSYYFGGCPDNLTD SQCLNPIKAFQGCMLIFIDNQPKDLISVQQGSLGNFSDL 537
VQIYSGNSYYFGGCPDNLTD SQCLNPIKAFQGCMLIFIDNQPKDLISVQQGSLGNFSDL
Sbjct: 1438 VQIYSGNSYYFGGCPDNLTD SQCLNPIKAFQGCMLIFIDNQPKDLISVQQGSLGNFSDL 1617

Query: 538 HIDLCSIKDRCLPNYCEHGGSCSQSWTTFYCNCSDTSYTGATCHNSIYEQSCEVYRHQGN 597
HIDLCSIKDRCLPNYCEHGGSCSQSWTTFYCNCSDTSYTGATCHNSIYEQSCEVYRHQGN
Sbjct: 1618 HIDLCSIKDRCLPNYCEHGGSCSQSWTTFYCNCSDTSYTGATCHNSIYEQSCEVYRHQGN 1797

Query: 598 TAGFFYIDSDGSGPLGPLQVYCNITEDKIWTSVQHNNTELTRVRGANPEKPYAMALDYGG 657
TAGFFYIDSDGSGPLGPLQVYCNITEDKIWTSVQHNNTELTRVRGANPEKPYAMALDYGG
Sbjct: 1798 TAGFFYIDSDGSGPLGPLQVYCNITEDKIWTSVQHNNTELTRVRGANPEKPYAMALDYGG 1977

Query: 658 SMEQLEAVIDGSEHCEQEVAHYHCRSRLLNTPDGTPTWWIGRSNERHPYWGGSPPGVQQ 717
SMEQLEAVIDGSEHCEQEVAHYHCRSRLLNTPDGTPTWWIGRSNERHPYWGGSPPGVQQ
Sbjct: 1978 SMEQLEAVIDGSEHCEQEVAHYHCRSRLLNTPDGTPTWWIGRSNERHPYWGGSPPGVQQ 2157

Query: 718 CECGLDESCLDIQHFCNCDADKDEWTNDTGFLSFKDHL PVTQIVITDTDRSNSEAAWRIG 777
 CECGLDESCLDIQHFCNCDADKDEWTNDTGFLSFKDHL PVTQIVITDTDRSNSEAAWRIG
 Sbjct: 2158 CECGLDESCLDIQHFCNCDADKDEWTNDTGFLSFKDHL PVTQIVITDTDRSNSEAAWRIG 2337

Query: 778 PLRCYGDRRFWNAVSFYTEASYLHFPTFHA EFSADISFFFKTTALSGVFLENLGIKDFIR 837
 PLRCYGDRRFWNAVSFYTEASYLHFPTFHA EFSADISFFFKTTALSGVFLENLGIKDFIR
 Sbjct: 2338 PLRCYGDRRFWNAVSFYTEASYLHFPTFHA EFSADISFFFKTTALSGVFLENLGIKDFIR 2517

Query: 838 LEISSPSEITFAIDVGNGPVELVVQSPSLLNDNQWHYVRAERNL KETSLQVDNLPRSTRE 897
 LEISSPSEITFAIDVGNGPVELVVQSPSLLNDNQWHYVRAERNL KETSLQVDNLPRSTRE
 Sbjct: 2518 LEISSPSEITFAIDVGNGPVELVVQSPSLLNDNQWHYVRAERNL KETSLQVDNLPRSTRE 2697

Query: 898 TSEEGHFRLQLNSQLFVGGTSSRQKGFLGCIRSLHLNGQKMDLEERAKVTSGVRPGCPGH 957
 TSEEGHFRLQLNSQLFVGGTSSRQKGFLGCIRSLHLNGQKMDLEERAKVTSGVRPGCPGH
 Sbjct: 2698 TSEEGHFRLQLNSQLFVGGTSSRQKGFLGCIRSLHLNGQKMDLEERAKVTSGVRPGCPGH 2877

Query: 958 CSSYGSICHNGGKCKVEKHNGYLCDC TNSPYEGPFCKKEVSAVFEAGTSVTYMFQEPYPVT 1017
 CSSYGSICHNGGKCKVEKHNGYLCDC TNSPYEGPFCKKEVSAVFEAGTSVTYMFQEPYPVT
 Sbjct: 2878 CSSYGSICHNGGKCKVEKHNGYLCDC TNSPYEGPFCKKEVSAVFEAGTSVTYMFQEPYPVT 3057

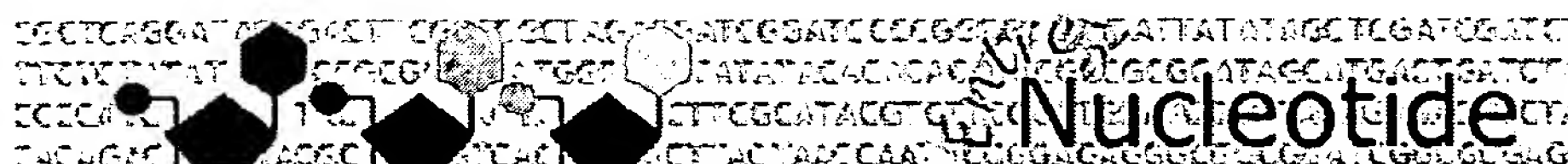
Query: 1018 KNISLSSSAIYTDSAPSKENIALSFVTTQAPSLLLFINSSSQDFV VVLLCKNGSLQVRYH 1077
 KNISLSSSAIYTDSAPSKENIALSFVTTQAPSLLLFINSSSQDFV VVLLCKNGSLQVRYH
 Sbjct: 3058 KNISLSSSAIYTDSAPSKENIALSFVTTQAPSLLLFINSSSQDFV VVLLCKNGSLQVRYH 3237

Query: 1078 LNKEETHVFTIDADNFANRRMHHLKINREGRELTIQMDQQLRLSYNFSPEVEFRVIRSLT 1137
 LNKEETHVFTIDADNFANRRMHHLKINREGRELTIQMDQQLRLSYNFSPEVEFRVIRSLT
 Sbjct: 3238 LNKEETHVFTIDADNFANRRMHHLKINREGRELTIQMDQQLRLSYNFSPEVEFRVIRSLT 3417

Query: 1138 LGKV TENLGLDSEVAKANAMGFAGCMSSVQYNHIAPLKAALRHATVAPVTVHGTLTESSC 1197
 LGKV TENLGLDSEVAKANAMGFAGCMSSVQYNHIAPLKAALRHATVAPVTVHGTLTESSC
 Sbjct: 3418 LGKV TENLGLDSEVAKANAMGFAGCMSSVQYNHIAPLKAALRHATVAPVTVHGTLTESSC 3597

Query: 1198 GFMVDS DVNAVTTVHSSSDPFGKTDEREPLTNAVRSDSAVIGGVIAVVIFIIFCIIGIMT 1257
 GFMVDS DVNAVTTVHSSSDPFGKTDEREPLTNAVRSDSAVIGGVIAVVIFIIFCIIGIMT
 Sbjct: 3598 GFMVDS DVNAVTTVHSSSDPFGKTDEREPLTNAVRSDSAVIGGVIAVVIFIIFCIIGIMT 3777

Query: 1258 RFLYQHKQSHRTSQMKEKEYPENLDSSFRNEIDLQNTVSECKREYFI 1304
 RFLYQHKQSHRTSQMKEKEYPENLDSSFRNEIDLQNTVSECKREYFI
 Sbjct: 3778 RFLYQHKQSHRTSQMKEKEYPENLDSSFRNEIDLQNTVSECKREYFI 3918



PubMed

Nucleotide

Protein

Genome

Structure

PopSet

Taxonomy

OMIM

Boo

Search

Nucleotide

for

Go

Clear

Limits

Preview/Index

History

Clipboard

Details

Display

default

Save

Text

Add to Clipboard

1: AB077881. Homo sapiens mRNA...
[gi:18181975]

MapView, Related Sequences, Protein, Taxonomy,
LinkOut

LOCUS AB077881 4920 bp mRNA linear PRI 17-JAN-2002
DEFINITION Homo sapiens mRNA for caspr5, complete cds.
ACCESSION AB077881
VERSION AB077881.1 GI:18181975
KEYWORDS .
SOURCE Homo sapiens brain cDNA to mRNA.
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1
AUTHORS Takeuchi,K., Watanabe,N., Kawano,T. and Kawamura,K.
TITLE In vitro and in vivo studies on the involvement of neural cell
adhesion molecules and chondroitin sulfate proteoglycans in
defining discrete axonal pathways of the rat cerebral cortex
JOURNAL Unpublished
REFERENCE 2 (bases 1 to 4920)
AUTHORS Takeuchi,K.
TITLE Direct Submission
JOURNAL Submitted (12-JAN-2002) Kosei Takeuchi, Nagoya University, Dept. of
Biological Sciences; Furo-cho, Chikusa-ku, Nagoya, Aichi 464-8602,
Japan (E-mail:ktakeuch@biol1.bio.nagoya-u.ac.jp,
Tel:81-52-789-2496, Fax:81-052-789-2968)
FEATURES Location/Qualifiers
source 1..4920
/organism="Homo sapiens"
/db_xref="taxon:9606"
/tissue_type="brain"
gene 1..3921
/gene="caspr5"
CDS 1..3921
/gene="caspr5"
/codon_start=1
/product="caspr5"
/protein_id="BAB83897.1"
/db_xref="GI:18181976"
/translation="MDSLPRLTSLVLTLLFSGLWHLGLTATNYNCDDPLASLLSPMAFS
SSSDLTGTHSPAQLNWRVGTGGWSPADSNAQQWLQMDLGNRVEITAVATQGRYGSSDW
VTSYSLMFSDTGRNWKQYKQEDSIWTFAGNMNADSVVHHKLLHSVRARFVRFPLEWN
PSGKIGMRVEVYGCYSKSDVADFDGRSSLLYRFNQKLMSTLKDVISLKFKSMQGDGVL
FHGEGQRGDHITLQLKGRALHLNLGDSKARLSSSLPSATLGSLLDDQHWHSVLIER
VGKQVNFVTVDKHTQHFRTKGETDALDIDYELSFGGIPVPGKPGTFLKKNFHGCIENLY
YNGVNIIDLAKRRKHQIYTGNTFSCSEPQIVPITFVNSSGSYLLLPQTIDGLSVS
FQFRTWNKDGLLLSTELSESGTLLLSLEGGILRLVIQKMTERVAEILTGSNLNDGLW
HSVSINARRNRITLTLDDDEAAPPAPDSTWVQIYSGNSYFYGCCPDNLTDSQLNPPIKA
FQGCMLRIFIDNQPKDLISVQQGSLGNFSDLHIDLCISKDRCLPNYCEHGGSCSQSWT
TFYCNCSDTSYTGATCHNSIYEQSCVYRHQGN TAGFFYIDSDGSGPLGPLQVYCNIT

EDKIWTSVQHNNTLTVRVRGANPEKPYAMALDYGGSMEQLEAVIDGSEHCEQEVAHYHC
RRSRLNTPDGTPTFWIGRSNERHPYWGGSPPGVQQCEGLDESCLDIQHFCNCAD
KDEWTNDTGFLSFKDHLPTQIVITDTRSNSEAAWRIGPLRCYGDRRFWNAVSYFTE
ASYLHFPTFHAEFSAFISFFFKTTALSGVFLENLGIKDFIRLEISSPSEITFAIDVGN
GPVELVVQSPSLLNDNQWHYVRAERNLKETSLQVDNLPSTRETSEEGHFRQLNSQL
FVGGTSSRQKGLGCIIRSLHLNGQKMDLEERAKVTSGVRPGCPGHCSSYGSICHNGGK
CVEKHNGYLCDCNTNSPYEGPFCKKEVSAVFEAGTSVTYMFQEPYPVTKNISLSSSAIY
TDSAPSKENIALSFVTTQAPSLLLFINSSSQDFVVLLCKNGSLQVRYHLNKEETHVF
TIDADNFANRRMHHLKINREGRELTIQMDQQLRLSYNFSPEVEFRVIRSLTLGKVTE
LGLDSEVAKANAMGFAGCMSSVQYNHIAPLKAALRHATVAPVTVHGTLTLESSCGFMVD
SDVNAVTTVHSSSDPFGKTDEREPLTNAVRSDDAVIGGVIAVVIFIIFCIIGIMTRFL
YQHKQSHRTSQMKEKEYPENLDSSFRNEIDLQNTVSECKREYFI"

BASE COUNT 1292 a 1229 c 1160 g 1239 t

ORIGIN

```
1 atggattctt taccacggct gaccagcgtt ttgactttgc tgttctctgg cttgtggcat
61 ttaggattaa cagcgacaaa ctacaactgt gatgatccac tagcatccct gctctctcca
121 atggcttttt ccagttcctc agacctcact ggcactcaca gcccagctca actcaactgg
181 agagttggaa ctggcggttg gtccccagca gattccaatg ctcaacagtg gctccagatg
241 gacctgggaa acagagtaga gattacagca gtggccacgc agggagataa cggaagctct
301 gactgggtga cgagttacag cctgatgttc agtgacacag gacgcaactg gaaacagtac
361 aaacaagaag acagcatctg gacctttgca ggaaacatga atgctgacag cgtgggtgcac
421 cacaagctat tgcactcagt gagagcccga tttgttcgct ttgtgcccct ggaatggaat
481 cccagtggga agattggcat gagagtcgag gtctacggat gttcctataa atcagatgtt
541 gctgactttg atggccgaag ctcaactctg tacagggtca atcagaagtt gatgagtact
601 ctcaaagatg tgatctccct gaagttcaag agcatgcaag gagatggggg cctgttccat
661 ggagaagggt agcgtggaga ccacatcacc ttggaactcc agaaggggag gctcgcccta
721 cacctcaatt tgggtgacag caaagcgcgg ctacagcagca gcttgccctc tgccaccctg
781 ggcagcctcc tggatgacca gcaactggac tcggctctca ttgagcgggt gggcaagcag
841 gtgaacttca cgggtggaaa gcacacacag cacttccgca ccaagggcga gacggatgcc
901 ttagacattg actatgagct tagttttgga ggaattccag taccaggaaa acctgggacc
961 tttttaaaga aaaacttcca tggatgcatc gaaaaccttt actacaatgg agtaaacata
1021 attgacctgg ctaagagacg aaagcatcag atctatactg gcaatgtcac tttttcctgc
1081 tccgaaccac agattgtgcc catcacattt gtcaactcca gcggcagcta tttgctgctg
1141 cccggcacc cccaaattga tgggctctca gtgagtttcc agtttcgaac atggaacaag
1201 gatgggtctg ttctgtccac agagctgtct gagggctcgg gaaccctgct gctgagcctg
1261 gaggggtgaa tcctgagact cgtgattcag aaaatgacag aacgcgtagc tgaaatcctc
1321 acaggcagca acttgaatga tggcctgtgg cactcgggta gcatcaacgc caggaggaa
1381 cgcacacgc tcaactctga tgatgaagca gcaccccccg ctccagacag cacttgggtg
1441 cagatttatt ctggaaatag ctactatatt ggaggggtgc cgcacaatct caccgattcc
1501 caatgtttta atcccattaa ggcttttcaa ggctgcatga ggctcatctt tattgataac
1561 cagcccaagg acctcatttc agttcagcaa ggttccctgg ggaattttag tgatttacac
1621 attgatctgt gtagcatcaa agacaggtgt ttgccaaact actgtgaaca tggaggaagc
1681 tgctcccagt cctggactac cttctattgt aactgcagtg acacaagtta cactgggtgc
1741 acctgccaca actccatcta cgagcaatcc tgcgaggtgt acaggcacca ggggaataca
1801 gccggcttct tctacatcga ctacagatgg agcggccccc tgggacctct ccaggtgtac
1861 tgcaatatca ctgaggacaa gatctggaca tcagtgcagc acaacaatac agagctgacc
1921 cgagtgcggg gcgctaacc tgagaagccc tatgccatgg ccttggacta cgggggcagc
1981 atggaacagc tggaggccgt gatcgacggc tctgagcact gtgagcagga ggtggcctac
2041 cactgcagga ggtcccgcct gctcaacacg ccggatggaa caccatttac ctggtggatt
2101 gggcggtcca atgaaaggca cccttactgg ggaggttccc ctctgggggt ccagcagtgt
2161 gagtgtggcc tagacgagag ctgcctggac attcagcact tttgcaattg cgacgctgac
2221 aaggatgaat ggacaaatga tactggcttt ctttccttca aagaccactt gcctgtcact
2281 cagatagtta tcaactgata cgacagatca aactcagaag ccgcttggag aattggtccc
2341 ttgcgttgct atgggtgacc acgcttctgg aacgccgtct cattttatac agaagcctct
2401 tacctccact ttcctacctt ccatgcggaa ttcagtgcgg atatctcctt cttttttaa
2461 accacagcat tatccggagt tttcctagaa aatcttggca ttaaagactt cattcgactc
2521 gaaataagct ctccttcaga gatcaccttt gccatcgatg ttgggaatgg tcctgtggag
2581 cttgtagtcc agtctccttc tcttctgaat gacaaccaat ggcactatgt cgggctgag
2641 aggaacctca aggagacctc cctgcaggtg gacaaccttc caaggagcac caggagagc
2701 tcggaggagg gccattttcg actgcagctg aacagccagt tgtttgtagg gggaacgtca
```



```
2761 tccagacaga aaggcttctt aggatgcatt cgctccttac acttgaatgg acagaaaatg
2821 gacctggaag agagggcaaa ggtcacatct ggagtcaggc caggctgccc cggccactgc
2881 agcagctacg gcagcatctg ccacaacggg ggcaagtgtg tggagaagca caatggctac
2941 ctgtgtgatt gcaccaattc accttatgaa gggccctttt gcaaaaaaga ggtttctgct
3001 gttttttgagg ctggcacgtc ggttacttac atgtttcaag aaccctatcc tgtgaccaag
3061 aatataagcc tctcatcctc agctatttac acagattcag ctccatccaa ggaaaacatt
3121 gcacttagct ttgtgacaac ccaggcaccc agtcttttgc tctttatcaa ttcttcttct
3181 caggacttcg tggttgttct gctctgcaag aatggaagct tacaggttcg ctatcaccta
3241 aacaaggaag aaacccatgt attcaccatt gatgcagata actttgctaa cagaaggatg
3301 caccacttga agattaaccg agagggaaga gagcttacca ttcagatgga ccagcaactt
3361 cgactcagtt ataacttctc tccggaagta gagttcaggg ttataaggtc actcaccttg
3421 ggcaaagtca cagagaatct tggtttggat tctgaagttg ctaaagcaaa tgccatgggt
3481 tttgctggat gcatgtcttc cgtccagtag aaccacatag caccactgaa ggctgccctg
3541 cgccatgcca ctgtcgcgcc tgtgactgtc catgggacct tgacggaatc cagctgtggc
3601 ttcattggtg actcagatgt gaatgcagtg accacggtgc attcttcctc agatcctttt
3661 gggaagacag atgagcggga accactcaca aatgctgttc gaagtgattc ggcagtcctc
3721 ggaggggtga tagcagtggg gatattcttc atcttctgta tcatcggcat catgaccggg
3781 ttcctctacc agcacaagca gtcacatcgt acgagccaga tgaaggagaa ggaatatcca
3841 gaaaatttgg acagttcctt cagaaatgaa attgacttgc aaaacacagt gagcgagtgt
3901 aaacgggaat atttcatctg agaaactgca gggttcctac tactcttttt tcttgttgtt
3961 caattatctc ctccccctct tctctcctgt cttttgattt ggtcattctc tttattttct
4021 gcttgccatg tcttttctgg aacatacttg catccaccac agcatcaatt cccttgatcc
4081 agcccaagag accaggcagc catggccact gccttcctct ctgatgaacc tatcgggtga
4141 aaacgaccac tcaagagact gacttcgcca ttcaagacaa ggaagagaca catgtgtgca
4201 ctcttgcatt ttcagttctg tacttccagt ttctaaaatg cactgttcag ttttccaacc
4261 acttggtggg tcaggcttgc tttgaacctg agctcttagg cacatgacgg tcattcctga
4321 catcctcccc agctcaagtc tattcttacc atagaacca gggcaggagg agaagaacct
4381 agaggcctgg tttgctttgg tggcattgta aaaagagtaa gagaggtttg gtttgtgggtg
4441 gtttgctttc tttaccataa gcaatccctt gccttaactc atcacccttt ttcactatga
4501 cccttagacc ctgagtattt tcaaataat gattgctgat agtagtgacc aaaactactt
4561 tgttcctttc ttaccactct ctctgggggc cgacacgttg ggacagcaca ccatagcata
4621 aagctagggg atgcatggaa atagcagctt gaaactagga ggtaacaaga aagcttctag
4681 gaagtagatg ttccatatct tcaaaatgcc tcctccaatt ttgtaagaat gctagctagg
4741 tattcctggg attattatac tgagatatat atatatacac acacacacac atatgtgtat
4801 atatgtatat atatatgtga gtatatatac acacacacac acacacacac atatatatat
4861 atacacacac gcacacatat atgttgctgc agcataaaga aattgaaata aaagtttaaa
```

//

Revised: July 5, 2002.

[Disclaimer](#) | [Write to the Help Desk](#)
[NCBI](#) | [NLM](#) | [NIH](#)

Jul 16 2002 16:59:14